

## Storm Data and Unusual Weather Phenomena - January 2009

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>WISCONSIN, Southeast</b>				

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

01/03/09 15:00 CST	0	Winter Weather
01/04/09 09:00 CST	237	0

Light freezing rain spread across south-central and southeast Wisconsin during the overnight hours of January 3rd. Ice accumulations on road and sidewalks ranged from 1/10 to 2/10 of an inch, but there were some isolated 1/4 inch amounts. However, ice accumulations on trees and fences were minimal. Some light snow and sleet, with accumulations of less than an inch, occurred at the end of this winter weather event. This freezing rain event had a large impact on society - in the form of thousands of vehicle accidents, and hundreds of people seeking medical treatment at hospitals. The media reported that vehicles slid off roads, rolled over, or slid backwards down hills. There were several reports of semi-tractor trailers jackknifing. A 7-year-old boy died (indirect) in a 2-vehicle accident near the intersection of STH 151 and CTH S southwest of Beaver Dam in Dodge County. Five other people were injured (indirect). It was reported that the vehicles were driving too fast for the icy road conditions. Two people were injured (indirect) in a 2-vehicle accident northeast of Janesville on STH 26 (Rock Co.). In Green County, the Sheriff Department noted that 6 people were injured (indirect) in various vehicle accidents. In Madison (Dane Co.), 177 people needed medical treatment at 3 hospitals due to falling on icy surfaces. In Fond du Lac County, at least 60 people fell on icy surfaces and required medical treatment. No doubt, many other people elsewhere in South-central and Southeast Wisconsin were injured in falls on ice surfaces. Synoptically, low pressure moved from the Southern Plains to Missouri to Northern Illinois to Lower Michigan.

(WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

01/09/09 04:00 CST	0	Winter Weather
01/09/09 13:00 CST	0	

Snow fell across south-central and southeast Wisconsin on January 9th during a 9-hour period, with the greatest accumulations south of a Madison to Milwaukee line. A narrow band of 6 to 8 inch accumulations occurred from southern Iowa County through southern Dane County to the Burlington (Racine Co.) and Paddock Lake area (Kenosha Co.). Societal impact was minimal, therefore, this event was documented as a winter weather event rather than a Winter Storm event. Snowfall amounts north of a Madison to Milwaukee line ranged from 2 to 4 inches. Both Oregon (Dane Co.) and Burlington (Racine Co.) gathered 8.5 inches, while 8 inches fell in La Grange (Walworth Co.). Palmyra (Jefferson Co.) came in with 6 inches and 5.7 inches accumulated in Janesville (Rock Co.). The Madison (Dane Co.) airport measured 3.6 inches and the Milwaukee Airport came in with 3 inches. The media reported that dozens of vehicle accidents occurred. Synoptically, low pressure moved east along the Iowa-Missouri border through Central Illinois and then up the Ohio River Valley.

(WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

01/09/09 21:00 CST	0	Winter Weather
01/10/09 13:00 CST	0	

This was round number two of two days of dry, fluffy, snow falling over roughly the same area in south-central and southeast Wisconsin. However, the axis of the greatest snow accumulations in round two was south of the Jan 9th winter weather event, and stretched from Janesville (Rock Co.) to La Grange (Walworth Co.) to Kenosha (Kenosha Co.). Specific accumulations included 8 inches in La Grange, 7.6 inches in Janesville, 7.2 inches just northwest of the city of Kenosha, 6 inches in Burlington (Racine Co.), an estimated 5 to 6 inches in extreme southeast Green County, 5 inches in Racine (Racine Co.), 3.5 inches at a location 3 miles southeast of Palmyra (Jefferson Co.), and an estimated 3 to 4 inches in southeastern Lafayette County. Since all of this snow fell over a 16-hour period, the impact on society was minimal. Therefore, this event was classified as a Winter Weather event rather than a Winter Storm event. Synoptically, a strong short-wave trough in the upper levels of the atmosphere moved east through the Midwest and concentrated snowfall over south-central and southeast Wisconsin, as well as over northern Illinois.

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

01/12/09 16:00 CST	0	Winter Weather
01/13/09 06:00 CST	0	

An Alberta-clipper winter weather event affected south-central and southeast Wisconsin with new snow accumulations and gusty northwest winds that led to some blowing and drifting snow. Snow accumulations ranged from roughly 2 inches in the counties of Milwaukee, Racine and Kenosha, on to up to 3 to 4.8 inches along and northwest of a line from Madison (Dane Co.) to Port Washington (Ozaukee Co.). Northwest winds on the backside of the low pressure were on the order of 13 to 22 knots (15 to 25 mph) with gusts to

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26 knots (30 mph). Specific accumulations included 4.8 inches in Mt. Horeb (Dane Co.), 4.7 inches in Ripon (Fond du Lac Co.), 4.5 inches in Portage (Columbia Co.), 4.3 inches north of Oxford (Marquette Co.), and 4 inches in Random Lake (Sheboygan Co.). Dozens of vehicle accidents were noted by the media. The responsible Alberta-Clipper low pressure dropped southeast out of the Northern Plains through northern Illinois and then to Northern Ohio.				

(WI-Z044) ADAMS, (WI-Z047) GREEN LAKE, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK

01/13/09 07:00 CST	0	Cold/Wind Chill
01/13/09 11:00 CST	0	

Bitter cold arctic air poured into South-central and Southeast Wisconsin on January 13th in the wake of an Alberta Clipper low pressure. At sunrise air temperatures ranged from -3 to +5, however, by late morning air temperatures ranged from -2 to +7 across southern Wisconsin. Northwest winds of 13 to 22 knots (15 to 25 mph) with gusts to 30 knots (35 mph) generated wind chill values of -20 to -30. Several public schools delayed the start of classes by 2 hours.

(WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

01/13/09 23:00 CST	0	Winter Weather
01/14/09 09:00 CST	0	

Another Alberta-Clipper low pressure dropped from the Northern Plains across southern Iowa through central Illinois. New snow accumulations of 1 to 3 inches were noted across South-central and Southeast Wisconsin while north winds gusted to 17 knots (20 mph). Most locations picked up around an inch of snow, but New Glarus (Green Co.) measured 3 inches. The new snow and winds resulted in drifting of the dry snow across west-east orientated roads in exposed areas. During this event, visibilities were reduced to 1 to 2 miles. The media reported dozens of vehicle accidents.

(WI-Z071) RACINE, (WI-Z072) KENOSHA

01/14/09 09:00 CST	0	Lake-Effect Snow
01/14/09 13:00 CST	0	

A couple bands of lake-effect snow developed over southern Lake Michigan in association with a meso-low pressure, and then moved inland to affect the counties of Racine and Kenosha. In the city of Racine (Racine Co.), 8 inches was measured, while 5 inches fell in the city of Kenosha (Kenosha Co.). The axis of the greatest snow accumulations extended from the city of Racine southwest to near Paddock Lake (Kenosha Co.) where roughly 6 inches fell. An estimated 2 to 4 inches accumulated over extreme southeast Milwaukee County. At the Racine Airport, north-northwest winds gusted to 29 knots (33 mph) during the heavy lake-effect snow squalls which lowered visibilities at that location to around 1/4 mile at times.

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

01/14/09 20:00 CST	0	Cold/Wind Chill
01/15/09 06:00 CST	2	0

Cold arctic air poured into South-central and southeast Wisconsin as a massive arctic high pressure pushed into the Midwest. Air temperatures dropped into the single digits and then below zero as northwest to west winds of 10 to 20 knots (12 to 23 mph) pushed wind chills down into the -20 to -30 range. Maximum air temperatures on January 14th ranged from +5 in Juneau (Dodge Co.) to +12 at several locations in Kenosha County. Minimum air temperatures Thursday morning January 15th ranged from -10 in Sheboygan (Sheboygan Co.) to -24 in Sauk City (Sauk Co.). Two people were treated for frostbit in a Madison hospital on January 14th. Numerous schools closed down on January 15th and 16th, and many civic clubs activities were cancelled.

(WI-Z060) OZAUKEE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE

01/14/09 20:00 CST	0	Cold/Wind Chill
01/16/09 12:00 CST	0	

Bitter cold arctic air poured into Southeast Wisconsin as a massive high pressure pushed southeast into the Midwest. This was some of the coldest air experienced in the past 10 to 15 years. Numerous schools closed down on January 15th and 16th, and many civic clubs activities were cancelled. Maximum air temperatures on January 14th ranged from +6 in Whitewater (Walworth Co.) to +13 in West Allis (Milwaukee Co.). Minimum air temperatures Thursday morning January 15th ranged from -11 at the airports in Watertown (Jefferson Co.) and Waukesha (Waukesha Co.) to -21 in Ft. Atkinson (Jefferson County). Maximum air temperatures on Thursday, January 15th ranged from -6 at NWS Forecast office southeast of Sullivan (Jefferson Co.) to +1 in the locations of Germantown (Washington Co.), West Allis (Milwaukee Co.), and Mt. Mary College (Milwaukee Co.). Minimum air temperatures during the pre-dawn hours of Friday, January 16th ranged from -12 in West Allis (Milwaukee Co.) to -24 in Watertown (Jefferson Co.) and Oconomowoc (Waukesha Co.). The lowest wind chill values during this arctic blast occurred during the pre-dawn hours of Friday, January 16th, and ranged within a couple points either side of -30. However, the wind chill values dropped consistently below -20 during the evening hours of January 14th. During this

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arctic blast, the winds were generally west to southwest at 4 to 13 knots (5 to 15 mph), but the wind occasionally become calm overnight in some river valleys. No new record low temperatures were established. However, Milwaukee's minimum temperature of -12 on January 16th was the 6th coldest daily low temperature on record since 1995. Milwaukee's maximum temperature of zero on January 15th was the 4th coldest daily maximum on record since 1995.

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(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA				
	01/15/09 06:00 CST		0	Extreme Cold/Wind Chill
	01/16/09 12:00 CST	2	0	

Onen of the coldest arctic blasts in 10 to 15 years numbed residents of South-central and Southeast Wisconsin during the period of Thursday, January 15th through the noon hour on January 16th. Minimum air temperatures Thursday morning January 15th ranged from -10 in Sheboygan (Sheboygan Co.) to -24 in Sauk City (Sauk Co.). Maximum air temperatures on Thursday, January 15th ranged from -8 at Monroe (Green Co.) to +1 in the locations of Germantown (Washington Co.), West Allis (Milwaukee Co.), and Mt. Mary College (Milwaukee Co.). Minimum air temperatures during the pre-dawn hours of Friday, January 16th ranged from -11 in Sheboygan to -35 at the Lone Rock Airport (Sauk Co.). The lowest wind chill values during this arctic blast occurred during the pre-dawn hours of Friday, January 16th, and ranged from -35 in West Bend (Washington Co.) to -42.5 in Middleton (Dane Co.). During this arctic blast, the winds were generally west to southwest at 4 to 13 knots (5 to 15 mph), but the wind occasionally become calm overnight in some river valleys. No new record low temperatures were established. owever, Madison's minimum temperature of -19 on January 16th was the 7th coldest daily minimum on record since 1995. Madison's maximum temperature of -2 on January 15th was the 4th coldest daily maximum on record since 1995. Two people were treated for frostbite in a Madison hospital on January 15th. Numerous schools closed down on January 15th and 16th, and many civic clubs activities were cancelled. Synpotically, a massive high pressure dropped southeast from Alaska through central Canada and down into the mid-section of the United States.

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(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK				
	01/24/09 06:00 CST		0	Cold/Wind Chill
	01/24/09 10:00 CST		0	

What may be the last cold/wind chill event of the 2008-09 winter season affected South-Central and Southeast Wisconsin on January 24th. Fresh arctic air pushed in on west to northwest winds of 4 ro 13 knots (5 to 15 mph). Minimum air temperature dropped to -9 in Baraboo (Sauk Co.), Mineral Point (Iowa Co.), and Monroe (Green Co.) to +2 at the Racine Airport (Racine Co.). Wind chill values dropped to within a couple points either side of -20. Synoptically, a cold front moved southeast through the Great Lakes Region while a large high pressure dropped southeast through the Northern Plains.